

L Number	Hits	Search Text	DB	Time stamp
1	28127	((laser or halogen or Xe) same (silicon or polysilicon))	USPAT; US-PGPUB	2003/04/14 15:11
2	3132	((laser or halogen or Xe) same (silicon or polysilicon)) and (tft or (thin adj film adj transistor))	USPAT; US-PGPUB	2003/04/14 15:11
3	250	((laser or halogen or Xe) same (silicon or polysilicon); and (tft or (thin adj film adj transistor))) and @ad<=19930712	USPAT; US-PGPUB	2003/04 14 15:14
4	13427	((laser or halogen or Xe) same (silicon or polysilicon))	EPO; JPO; DERWENT; IBM_TDB	2003/04/14 15:11
5	1019	((laser or halogen or Xe) same (silicon or polysilicon) and (tft or (thin adj film adj transistor)))	EPO; JPO; DEFWENT; IBM_TDB	2003/04/14 15:12
9	374	((laser or halogen or Xe) same (silicon or polysilicon)) and (tft or (thin adj film adj transistor)) and ((irradiating or irradiation) same (laser or halogen or Xe))	EPO; JPO; DEFWENT; IBM_TDB	2003/04/14 15:31
11	737	(437/143-152,166,496,487).ccls. and (irradiating or irradiation)	USPAT; US-PGPUB	2003/04/14 15:37
12	83	(437/143-152,166,496,487).ccls. and (irradiating or irradiation) ) and @ad<=19930712	USPAT; US-PGPUB	2003/04/14 15:40
13	56	(437/143-152,166,496,487).ccls. and (irradiating or irradiation) ) and @ad<=19930712 not (((laser or halogen or Xe) same (silicon or polysilicon)) and (tft or (thin adj film adj transistor))) and @ad<=19930712)	USPAT; US-PGPUB	2003/04/14 15:34
14	337	(437/72,74,75).ccls. and (irradiating or irradiation)	USPAT; US-PGPUB	2003/04/14 15:40
15	33	(437/72,74,75).ccls. and (irradiating or irradiation) ) and @ad<=19930712	USPAT; US-PGPUB	2003/04/14 15:40
16	29	(437/72,74,75).ccls. and (irradiating or irradiation) ) and @ad<=19930712 not (437/143-152,166,496,487).ccls. and (irradiating or irradiation) ) and @ad<=19930712 not (((laser or halogen or Xe) same (silicon or polysilicon)) and (tft or (thin adj film adj transistor))) and @ad<=19930712)	USPAT; US-PGPUB	2003/04/14 15:40
18	24	(437/72,74,75).ccls. and (irradiating or irradiation) ) and @ad<=19930712 not (437/143-152,166,496,487).ccls. and (irradiating or irradiation) ) and @ad<=19930712 not (((laser or halogen or Xe) same (silicon or polysilicon)) and (tft or (thin adj film adj transistor))) and @ad<=19930712 not (((laser or halogen or Xe) same (silicon or polysilicon)) and (tft or (thin adj film adj transistor))) and @ad<=19930712)	USPAT; US-PGPUE	2003/04/14 15:41

PAT-NO: JP405055570A  
DOCUMENT-IDENTIFIER: JP 05055570 A  
TITLE: THIN FILM SEMICONDUCTOR DEVICE AND  
MANUFACTURE THEREOF  
PUBN-DATE: March 5, 1993

## INVENTOR-INFORMATION:

NAME  
OKAWA, SABURO  
MOCHIIKI, YASUHIRO

## ASSIGNEE-INFORMATION:

NAME	COUNTRY
HITACHI LTD	N/A

APPL-NO: JPC3218690

APPL-DATE: August 29, 1991

INT-CL (IPC): H01L029/784, G02F001/136 , H01L027/12

## ABSTRACT:

PURPOSE: To provide uniformity and reproducibility of a product by providing a thin field-effect film transistor having a first reverse staggered structure formed with an amorphous semiconductor layer channel region of a single layer and a second reverse staggered structure formed with a semiconductor layer channel region of a laminated layer of crystalline and amorphous layers.

CONSTITUTION: A Cr layer is deposited on an insulting board 1, and a gate

electrode 2 is formed. An SiN layer 3 to become a gate insulating layer and an amorphous Si layer 4 of a semiconductor film are sequentially deposited. The layer 4 is deposited by using SiH<sub>4</sub> and H<sub>2</sub> as material gases. Hydrogen concentration in the layer 4 is set to 10% or less. The layer 4 is modified to a polycrystalline Si layer 5 by irradiating with a laser. An amorphous Si layer 6 and an n-type Si layer 7 doped with phosphorus are sequentially deposited. A thin film transistor for a peripheral circuit is formed of a laminated structure of the layers 5 and 6 at the channel region of a thin silicon film transistor, and a thin film transistor for driving a pixel is formed in a single layer structure of the layer 6.

COPYRIGHT: (C)1993,JPO&Japio

PAT-NO: JP404139727A

DOCUMENT-IDENTIFIER: JP 04139727 A

TITLE: THIN FILM TRANSISTOR AND MANUFACTURE  
THEREOF

PUBN-DATE: May 13, 1992

INVENTOR-INFORMATION:

NAME  
MATSUMOTO, SATOSHI  
YAMAGUCHI, NORITOSHI

ASSIGNEE-INFORMATION:

NAME	COUNTRY
KYOCERA CORP	N/A

APPL-NO: JP02262361

APPL-DATE: September 29, 1990

INT-CL (IPC): H01L021/336, H01L021/22 , H01L029/784

US-CL-CURRENT: 438/POR.184

ABSTRACT:

PURPOSE: To form a p-n junction having a good characteristic at a low temperature as a source-drain area without producing cracks in a silicon film by performing laser doping by setting the thickness of a the first insulating film to the double or thicker than that of a silicon film.

CONSTITUTION: The first insulating film 2 and a non-single crystal silicon film 3 are successively formed on an insulating substrate

1. The thickness of the film 3 is set to about 1/2 of the film 2. The second insulating film 4 is formed on the film 3. After the film 3 is crystallized or recrystallized by irradiating the film 3 with laser light L, the surface sections of the films 4 and 3 are removed by etching. Then a gate insulating film 5 is formed on the film 3 and a gate electrode 6 is formed on the film 5. In addition, contact holes 5a and 5b for forming source area/drain area are provided on both sides of the film 5 and diffusion layers 7 and 8 are respectively formed in the hole sections 5a and 5b by doping. Then a source and drain electrodes 9 and 10 are respectively formed on the source and drain areas 7 and 8. Finally, a protective film 11 is formed by leaving parts of the electrodes 6, 9, and 10 uncovered with the film 11.

COPYRIGHT: (C)1992,JPO&Japio

PAT-NO: JP404051529A  
DOCUMENT-IDENTIFIER: JP 04051529 A  
TITLE: MANUFACTURE OF THIN FILM TRANSISTOR  
PUBN-DATE: February 10, 1992

INVENTOR-INFORMATION:  
NAME  
KONYA, NAOHIRO

ASSIGNEE-INFORMATION:  
NAME COUNTRY  
CASIO COMPUT CO LTD N/A

APPL-NO: JP02159847  
APPL-DATE: June 20, 1990

INT-CL (IPC): H01L021/336, H01L029/784

US-CL-CURRENT: 257/66, 438/512 , 438/FOR.151

ABSTRACT:

PURPOSE: To manufacture a thin film transistor having uniform characteristics by preparing source and drain electrodes on an insulating substrate, followed by depositing an amorphous silicon semiconductor and gate insulating film sequentially thereon, further followed by irradiating laser beam downward to the gate insulating film to polymerize the amorphous silicon semiconductor.

CONSTITUTION: On an insulating substrate 1, a source

electrode 2, a drain electrode 3, and an ohmic contact layer 4 consisting of n-type amorphous silicon are prepared, and further i-type amorphous silicon semiconductor 5a and gate insulating film 6 thereon in this order. Next, excimer laser beam A is irradiated downward to the gate insulating film 6 to heat both a semiconductor layer 5 and the ohmic contact layer 4 which is under the semiconductor layer 5, and after that, they are gradually cooled to polymerize the amorphous silicon semiconductor 5a to prepare a polysilicon semiconductor 5b, while at the same time the amorphous silicon of the ohmic contact layer 4 is also polymerized to prepare polysilicon.

COPYRIGHT: (C)1992, JPO&Japio

PAT-NO: JP402219274A

DOCUMENT-IDENTIFIER: JP 02219274 A

TITLE: THIN-FILM TRANSISTOR

PUBN-DATE: August 31, 1990

INVENTOR-INFORMATION:

NAME

FUKADA, TAKESHI  
SHINOSHIMA, HISATO

ASSIGNEE-INFORMATION:

NAME SEMICONDUCTOR ENERGY LAB INC LTD	COUNTRY N/A
--	----------------

APPL-NO: JPC1040596

APPL-DATE: February 20, 1989

INT-CL (IPC): H01L029/784, H01L021/336

US-CI-CURRENT: 257/66

ABSTRACT:

PURPOSE: To manufacture a thin-film transistor(TFT) which operates at a high speed with high reducibility without complicated process by cutting the part of the TFT constituting a source-drain area composed of a low-resistance non-monocrystalline semiconductor layer or the semiconductor layer and a metal with a condensed laser beam.

CONSTITUTION: A non-monocrystalline silicon film 2 which is formed on a scda

line glass plate 1 as a low-resistance non-monocrystalline semiconductor and subjected to dry etching is cut into a source area 3 and drain area 4 by irradiating the film 2 with an excimer laser beam condensed by an optical system so that the beam can form a beam spot of  $\leq 10\mu\text{m}$  in width on the surface to be irradiated. Then an I type non-monocrystalline silicon film 6 is formed on the source area 3, drain area 4, and cut section 5 as a high-resistance semiconductor layer and a silicon nitride film 7 is formed on the surface of the film 6 as a gate insulating film. Then, after patterning the films to a prescribed pattern, a gate electrode 8 is formed by depositing a molybdenum film. Therefore, a TFT having a short channel length can be manufactured easily.

COPYRIGHT: (C)1990, JPO&Japio

PAT-NO: JP402033935A  
DOCUMENT-IDENTIFIER: JP 02033935 A  
TITLE: MANUFACTURE OF THIN FILM TRANSISTOR  
PUBN-DATE: February 5, 1990

INVENTOR-INFOPMATION:  
NAME  
YAZAKI, MASATOSHI

ASSIGNEE-INFOPMATION:  
NAME COUNTRY  
SEIKI EPSON CORP N/A

APPL-NO: JP63183803  
APPL-DATE: July 23, 1988

INT-CL (IPC): H01L021/336, G02F001/136 , H01L027/12 ,  
H01L029/784

US-CL-CURRENT: 117/43, 438/662 , 438/FOR.333 , 438/FOR.334

ABSTRACT:

PURPOSE: To prevent the deterioration and the contamination of a semiconductor layer produced in processes and simultaneously contrive large grain diameter by utilizing a gate insulating film as a thermal holding film at the time of laser irradiation while utilizing it as a protecting film of the semiconductor layer in the processes.

CONSTITUTION: A silicon layer 2 is laminated on an insulation board 1. Next

the silicon layer 2 is left in the form of an island and further an amorphous silicon layer 3 and an insulating film 4 are successively produced. Next a recess part is formed on the surface of the insulating layer 4 and the thick film part and the thin film part of the insulating film 4 are formed. Next laser irradiation is performed and the amorphous silicon layer 3 is converted into multicrystal silicon 5. Next a low resistance silicon layer 6 which becomes a gate electrode of a thin film transistor is formed. Next the part except for the thin film part of the insulating film 4 is removed. The insulating film 4 of the left thin film part becomes a gate insulating film of the thin film transistor. Thus, the insulating film 4 plays a role of a protecting film of thermal energy at the time of laser irradiation, works as the protecting film of the amorphous silicon layer 3 and the multicrystal silicon layer 5 and becomes a gate insulating film after completion.

COPYRIGHT: (C)1990,JPO&Japio

DERWENT-ACC-NO: 1992-410252

DERWENT-WEEK: 199250

COPYRIGHT 1993 DERWENT INFORMATION LTD

TITLE: Thin film transistor mfr. for active  
matrix type liq.  
silicon® and  
with laser beam to  
layer NoAbstract

crystal display - including coating  
insulation films, then irradiating  
crystallise polycrystalline silicon®

----- KWIC -----

Thin film transistor mfr. for active matrix type liq.  
crystal display -  
including coating silicon® and insulation films, then  
irradiating with laser  
beam to crystallise polycrystalline silicon® layer  
NoAbstract

THIN FILM TRANSISTOR MANUFACTURE ACTIVE MATRIX TYPE  
LIQUID CRYSTAL DISPLAY  
COATING SILICON® INSULATE FILM IRRADIATE LASER BEAM CRYSTAL  
POLYCRYSTALLINE  
SILICON® LAYER. NOABSTRACT

US-PAT-NO: 5262350

DOCUMENT-IDENTIFIER: US 5262350 A

TITLE: Forming a non single crystal  
semiconductor layer by  
using an electric current

----- FWIC -----

Then, a power source 11 is connected at one end with alternate ones of the conductive layers 4 and at the other end with intermediate ones of them; accordingly, the power source 11 is connected across the conductive layers 3 and 5. At this time, the region Z2 of the non-single crystal semiconductor layer 7, except the outer peripheral region Z1 thereof, is exposed to high L from the side of the light-permeable substrate 2 through the light-permeable conductive layer 3 and insulating layer 6 by the application of light L, electron-hole pairs are created in the non-single crystal semiconductor 7 to increase its conductivity. Accordingly, the irradiation by light L during the application of the current I to the non-single crystal semiconductor 7 facilitates a sufficient supply of the current I to the region Z2 even if the non-single crystal semiconductor 7 has a low degree of conductivity or conductivity close to intrinsic conductivity. For the irradiation of the non-single crystal semiconductor 7, a xeron lamp, fluorescent lamp and sunlight, can be employed. According to an experiment, good results were obtained by the employment of a 10.<sup>sup.3</sup> -lux xenon lamp. In the region Z2 a semi-amorphous semiconductor S2 is formed, as depicted in

FIG. 1G. The mechanism by which the semi-amorphous semiconductor S2 is formed in the region  $S_2$  is that heat is generated by the current I in the region  $S_2$ , by which it is changed in terms of structure.

Further, it has been found that the abovementioned heat generation contributes to the formation of the semi-amorphous semiconductor S2 which exhibits an excellent electrical conductivity characteristic. FIG. 3 shows this electrical conductivity characteristic, the abscissa representing temperature  $100/T$  ( $\text{.degree.K.}^{-1}$ ) and the ordinate dark current  $\log \sigma$  ( $\text{.cm.}^{-2}\text{s.}^{-1}$ ). According to our experiments, in which when the non-single crystal semiconductor 7 had a characteristic indicated by the curve  $a_1$ , the currents having densities of  $3 \times 10^1$  and  $1 \times 10^3$   $\text{A/cm.}^2$  were each applied as the aforesaid current I for 0.5 sec. while irradiating by the light L at an illumination of  $10^4$   $\text{lx}$ , such characteristics as indicated by the curves  $a_2$  and  $a_3$  were obtained, respectively. In the case where when the non-single crystal semi-conductor 7 had such a characteristic as indicated by the curve  $b_1$ , the currents of the same values as mentioned above were each applied as the current I for the same period of time under the same illumination condition, a characteristics indicated by the curves  $b_2$  and  $b_3$  were obtained, respectively. The curve  $b_1$  shows the characteristic of a non-single crystal semiconductor obtained by adding 1.2 mol % of the aforementioned metallic impurity, such as Ga or In, Sn or Pb, or As or Sb, to the non-single crystal semiconductor 7 of the characteristic indicated by the curve  $a_1$ . As is evident from a comparison of

the curves a<sub>2</sub>, a<sub>3</sub> and b<sub>2</sub>, b<sub>3</sub>, a semi-amorphous semiconductor obtained by adding the abovesaid metallic impurity to the semi-amorphous semiconductor S2 exhibits an excellent conductivity characteristic over the latter with such a metallic impurity added. It is preferred that the amount of metallic impurity added to the semi-amorphous semiconductor S2 be 0.1 to 10 mol %.

Thereafter, the non-single crystal semiconductor layer 84 is exposed to irradiation by laser light, with a power source 86 connected across the conductive layers 83 and 85, as illustrated in FIG. 7E. In this case, a laser beam L' having a diameter of 0.3 to 3 .mu.m, for instance, is applied to the non-single crystal semiconductor layer 84 at selected ones of successive positions a<sub>sub.1</sub>, a<sub>sub.2</sub>, . . . thereon, for example, a<sub>sub.1</sub>, a<sub>sub.3</sub>, a<sub>sub.4</sub>, a<sub>sub.8</sub>, a<sub>sub.9</sub>, at the moments t<sub>sub.1</sub>, t<sub>sub.3</sub>, t<sub>sub.4</sub>, t<sub>sub.8</sub>, t<sub>sub.9</sub>, . . . in a sequential order, as depicted in FIG. 8. By this irradiation the conductivity of the non-single crystal semiconductor layer 84 is increased at the positions a<sub>sub.1</sub>, a<sub>sub.3</sub>, a<sub>sub.4</sub>, a<sub>sub.8</sub>, a<sub>sub.9</sub>, . . . to allow there currents I<sub>sub.1</sub>, I<sub>sub.3</sub>, I<sub>sub.4</sub>, I<sub>sub.8</sub>, I<sub>sub.9</sub>, . . . , thus generating heat. As a result of this, the non-single crystal semiconductor layer 84 undergoes a structural change at the positions a<sub>sub.1</sub>, a<sub>sub.3</sub>, a<sub>sub.4</sub>, a<sub>sub.8</sub>, a<sub>sub.9</sub>, . . . to provide semi-amorphous semiconductor regions K<sub>sub.1</sub>, K<sub>sub.3</sub>, K<sub>sub.4</sub>, K<sub>sub.8</sub>, K<sub>sub.9</sub>, . . . , as shown in FIG. 7F.

The semiconductor device shown in FIG. 7F can be regarded as a memory in which "1", "0", "1", "1", "0", . . . in the binary representation are stored at the positions a<sub>sub.1</sub>, a<sub>sub.2</sub>, a<sub>sub.3</sub>, a<sub>sub.4</sub>,

a<sub>..</sub>.5, . . . , respectively. When the regions K<sub>..</sub>.1, K<sub>..</sub>.3, K<sub>..</sub>.4, . . . and consequently the positions a<sub>..</sub>.1, a<sub>..</sub>.3, a<sub>..</sub>.4, . . . are irradiated by a laser beam of lower intensity than the aforesaid one L' while at the same time connecting the power source across the conductive layers 33 and 35 via a load, the regions K<sub>..</sub>.1, K<sub>..</sub>.3, K<sub>..</sub>.4, . . . become more conductive to apply a high current to the load. Even if the regions K<sub>..</sub>.2, K<sub>..</sub>.5, K<sub>..</sub>.6, . . . are irradiated by such low-intensity laser beam, however, no current flows in the load, or if any current flows therein, it is very small. Accordingly, by irradiating the positions a<sub>..</sub>.1, a<sub>..</sub>.2, a<sub>..</sub>.3, . . . by low-intensity light successively at the moments t<sub>..</sub>.1, t<sub>..</sub>.2, t<sub>..</sub>.3, . . . , outputs corresponding to "1", "0", "1", "1", . . . are sequentially obtained in the load, as shown in FIG. 9. In other words, the semiconductor device of this embodiment has the function of a read only memory.

438/166

V	1 [1] J]	Document ID	Issue Date	Pages	Title	Current OR
1	<input type="checkbox"/> JI 016750 A	19930305	6	THIN FILM SEMICONDUCTOR DEVICE AND MANUFACTURE THEREOF		
2	<input type="checkbox"/> JI 01677 A	19970513	6	THIN FILM TRANSISTOR AND MANUFACTURE THEREOF		
3	<input type="checkbox"/> JI 01679 A	19920220	4	MANUFACTURE OF THIN FILM TRANSISTOR		
4	<input type="checkbox"/> JI 01674 A	19900831	6	THIN-FILM TRANSISTOR		
5	<input type="checkbox"/> JI 016745 A	19900205	4	MANUFACTURE OF THIN FILM TRANSISTOR		
6	<input type="checkbox"/> JI 016744 A	19921028	2	Thin film transistor mfr. for active matrix type liq. crystal display - including coating silicon <sup>®</sup> and insulation films, then irradiating with laser beam to crystallise polycrystalline silicon <sup>®</sup> layer; NoAbstract		

Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
1		OHTAWA, SABURO et al.	<input type="checkbox"/>	JP 04139727 A	<input type="checkbox"/>						
2	438/FOR.154	KATSUCHI, SHIZUET al.	<input type="checkbox"/>	JP 04139727 A	<input type="checkbox"/>						
3	257/667; 438/522;	KUWA, MITSUHIKO	<input type="checkbox"/>	JP 04051529 A	<input type="checkbox"/>						
4	438/FOR.151 438/665	FUJII, TAKESHI et al.	<input type="checkbox"/>	JF 02119274 A	<input type="checkbox"/>						
5	117/43; 438/662; 438/FOR.333; 438/FOR.334	YASAKI, MASATOSHI	<input type="checkbox"/>	JF 02033935 A	<input type="checkbox"/>						
6									<input type="checkbox"/>	JP 04305940 A	<input type="checkbox"/>

U [1] 1	Document ID	Issue Date	Pages	Title	Current OR
1	<input type="checkbox"/> U.S. 6,235,653 A 2001-05-22	1-2	Semiconductor device and method of manufacturing the same	438/166	
2	<input type="checkbox"/> U.S. 5,894,151 A 1999-04-13	1-5	Semiconductor device having reduced leakage current	257/347	
3	<input type="checkbox"/> U.S. 5,716,857 A 1998-02-10	1-9	Method for manufacturing a semiconductor device	438/151	
4	<input type="checkbox"/> U.S. 6,485,619 A 1996-01-16	1-38	Semiconductor device and method for forming the same	257/57	
5	<input type="checkbox"/> U.S. 5,470,762 A 1995-11-18	1-3	Method of fabricating a thin film transistor	438/164	
6	<input type="checkbox"/> U.S. 5,424,244 A 1995-06-13	1-2	Process for laser processing and apparatus for use in the same	438/301	
7	<input type="checkbox"/> U.S. 5,395,864 A 1995-03-07	1-2	Method for fabricating a thin film transistor	438/166	

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
1	257/E21.133; 257/E21.413; 257/E29.151; 257/E29.193; 438/485; 438/486		Oká, Hidetaki et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6,111,744	<input type="checkbox"/>
2	257/E21.605; 257/E21.703; 257/E27.112		Izumazaki, Shunpei et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5,894,151	<input type="checkbox"/>
3	257/E21.133; 257/E21.413; 257/E21.703; 65/60.8		Zhang, Hongyong	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5,717,649	<input type="checkbox"/>
4	257/E21.413; 257/E21.703; 257/E27.111; 257/E29.151; 257/E29.277		Izumazaki, Shunpei et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5,485,019	<input type="checkbox"/>
5	257/E21.413; 438/703; 438/704; 438/739; 438/978		Cocdama, Mitsuufumi et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5,470,762	<input type="checkbox"/>
6	257/E21.141; 257/E21.413; 438/535		Zhang, Hongyong et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5,424,244	<input type="checkbox"/>					
7	257/E21.123; 257/E21.413; 438/486; 438/909		Ueda, Toshiro	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5,595,804	<input type="checkbox"/>					

U	1 [1]	Document ID	Issue Date	Pages	Title	Current OR
6	<input type="checkbox"/>	US 5,013,075 A	1990-01-27	20	Thin-film transistor	<57/57
9	<input type="checkbox"/>	US 5,154,208 A	1992-10-19	29	Method for manufacturing a semiconductor device	<58/479
10	<input type="checkbox"/>	US 5,177,578 A	1992-12-05	12	Polycrystalline silicon thin film and transistor using the same	<57/54
11	<input type="checkbox"/>	US 5,132,754 A	1992-07-21	17	Thin film silicon semiconductor device and process for fabricating thereof	<57/57

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
8	257/E66; 257/E21.413; 257/E21.703; 257/E29.151; 349/122; 349/138; 349/43		Cheng, HongYong et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5,231,507	<input type="checkbox"/>					
9	117/8; 117/930; 257/E21.133; 257/E21.413; 257/E21.703; 438/166; 438/486; 438/938		Zhang, Hongqiang et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5,614,210	<input type="checkbox"/>
10	257/72; 257/E21.101; 257/E21.423; 257/E29.004; 257/E29.293		Kakinoki, Hisashi et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5,117,578	<input type="checkbox"/>
11	257/E21.101; 257/E29.003; 257/E29.293		Seki kawa, Tadashi et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5,132,754	<input type="checkbox"/>					